

Title (en)

EVALUATION DEVICE, EVALUATION METHOD, AND PROGRAM

Title (de)

BEURTEILUNGSVORRICHTUNG, BEURTEILUNGSVERFAHREN UND PROGRAMM

Title (fr)

DISPOSITIF D'ÉVALUATION, PROCÉDÉ D'ÉVALUATION ET PROGRAMME

Publication

**EP 3979609 A4 20230628 (EN)**

Application

**EP 19931002 A 20190816**

Priority

- JP 2019021487 W 20190530
- JP 2019032178 W 20190816

Abstract (en)

[origin: EP3979609A1] The number of conversational tests required for evaluation of acoustic quality of the ICC system is reduced. An evaluation value converting device 3 evaluates the quality of a conversation made across a near-end acoustic area 100 and a far-end acoustic area 200 inside a vehicle in which a plurality of acoustic areas are predetermined. A voice signal collected by a microphone M2 disposed in the far-end acoustic area 200 is emitted from a speaker S1 disposed in the near-end acoustic area 100. An objective evaluation value acquisition unit 33 acquires an evaluation value using, as an evaluation target sound, a voice signal obtained by adding a voice signal obtained from a first voice signal emitted from a sound source in the far-end acoustic area 200, collected by the microphone M2, and emitted from the speaker S1 to a voice signal obtained from the first voice signal transmitted through a space inside the vehicle and reaching the near-end acoustic area 100, with the first voice signal being used as a reference sound.

IPC 8 full level

**H04M 1/24** (2006.01); **H04M 9/02** (2006.01); **H04M 9/08** (2006.01)

CPC (source: EP US)

**H04M 1/24** (2013.01 - US); **H04M 1/6075** (2013.01 - US); **H04M 9/02** (2013.01 - EP); **H04M 9/082** (2013.01 - EP US)

Citation (search report)

- [A] JP 2018064162 A 20180419 - NIPPON TELEGRAPH & TELEPHONE
- [A] JP 2017135484 A 20170803 - HIGASHI NIPPON RYOKAKU TETSUDO
- [A] NOBUHIKO KITAWAKI UNIVERSITY OF TSUKUBA JAPAN ET AL: "Methodologies for the Performance Evaluation of Noise Reduction Algorithms and the Performance Estimation of Noisy Speech Recognition using PESQ; D 34", ITU-T DRAFT STUDY PERIOD 2005-2008, INTERNATIONAL TELECOMMUNICATION UNION, GENEVA ; CH, vol. STUDY GROUP 12, 18 January 2005 (2005-01-18), pages 1 - 8, XP017406090
- See also references of WO 2020240880A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 3979609 A1 20220406**; **EP 3979609 A4 20230628**; JP 7238978 B2 20230314; JP WO2020240880 A1 20201203; US 2022263933 A1 20220818; WO 2020240768 A1 20201203; WO 2020240880 A1 20201203

DOCDB simple family (application)

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